DSR-SERIES

PROFESSIONAL SOUND REINFORCEMENT

Order Code: SPEA34 - DSR-10A
Order Code: SPEA35 - DSR-12A
Order Code: SPEA36 - DSR-15A

USER MANUAL

www.prolight.co.uk

ENGLISH

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

CAUTION!

Keep this equipment away from rain, moisture and liquids.

SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual

CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Make sure you don't use the wrong kind of cables or defective cables.
- Do not drive the inputs with a signal level bigger, than required to drive the equipment to its full output
- Prevent distortion! Make sure that all components connected to the speaker have sufficient power ratings. Distortion will be generated if the components are operated at their limits.
- The user is responsible for correct positioning and operating of this fixture. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this equipment.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 220v/240v.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY; One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

Features

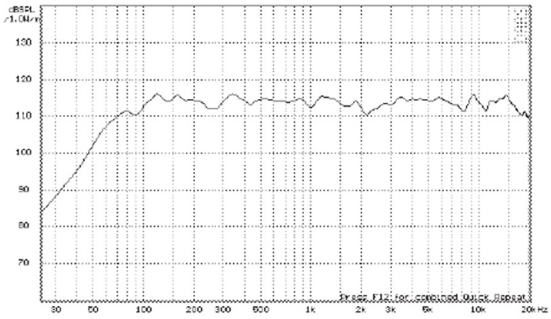
- High impact molded polypropylene enclosure
- Heavy duty dynamic switch mode power supply
- Built-in highly efficient class D amplifier
- 10”, 12” or 15” Mid-Low frequency transducers
- 1” Compression high frequency driver
- 80˚ x 60˚ Coverage pattern
- Smooth response with high power
- 5 Integral suspension points
- Complete mounting solutions

Specifications:	DSR-10A	DSR-12A	DSR-15A
Freq. Range(-10dB):	60Hz~19kHz	56Hz~19kHz	45Hz~19kHz
Freq. Response(-3dB):	70Hz~19kHz	65Hz~19kHz	55Hz~19kHz
Rec. Hi pass Frequency:	40Hz	40Hz	40Hz
Max Calculated SPL:	123dB	125dB	127dB
Horizontal Coverage:	80˚	80˚	80˚
Vertical Coverage:	60˚	60˚	60˚
Amplifier Power LF:	300W	400W	450W
Amplifier Power HF:	50W	50W	50W
LF Transducer:	10”/50mm	12”/50mm	15”/65mm
HF Transducer:	1”/25mm	1”/25mm	1”/25mm
Crossover Frequency:	2.5kHz	2.2kHz	2.2kHz
Loop/Mix Out:	XLR/M,Balanced	XLR/M,Balanced	XLR/M,Balanced
AC Input:	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz
Dimensions (H×W×D):	557 x 332 x 313mm	615 x 416 x 356mm	740 x 475 x 400mm
Net Weight:	14.5Kgs	17Kgs	22.5Kgs
Shipping Weight:	16.5Kgs	19.5Kgs	25.5Kgs

Specifications:

DSR-10A

Freq. chart:



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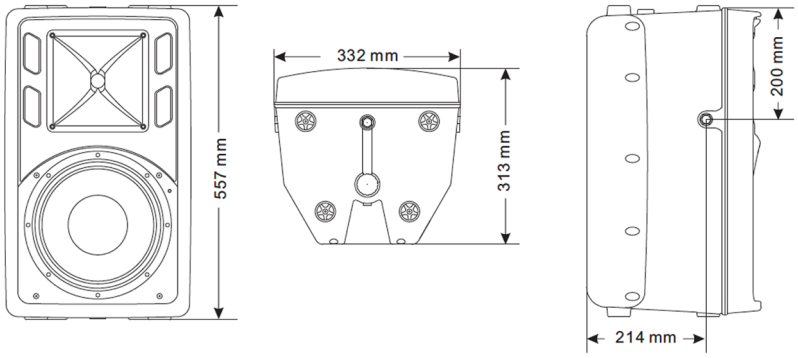

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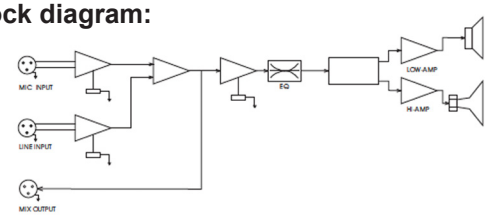
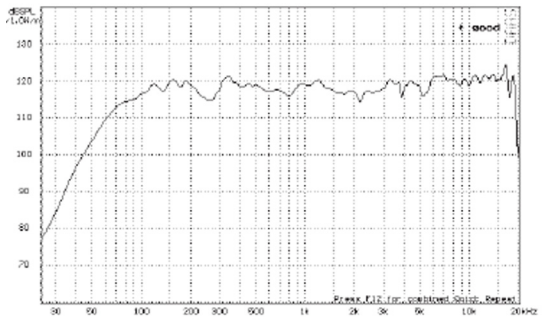


DSR-12A

Freq. chart:



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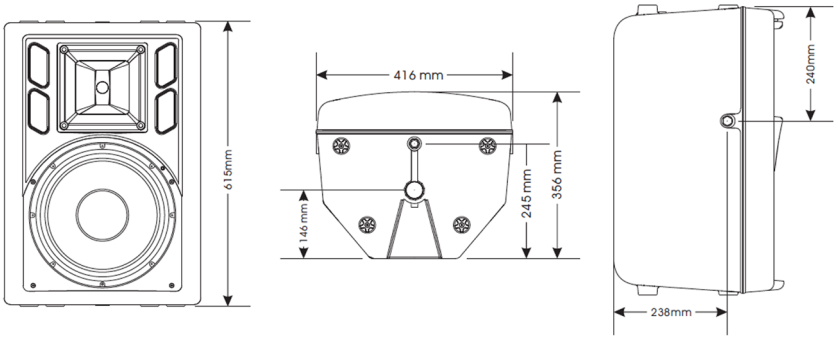

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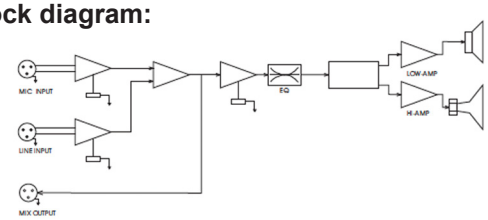
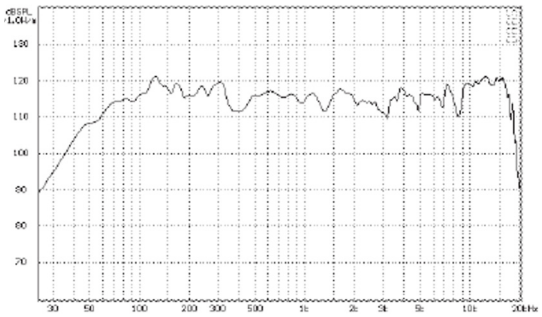


DSR-15A

Freq. chart:



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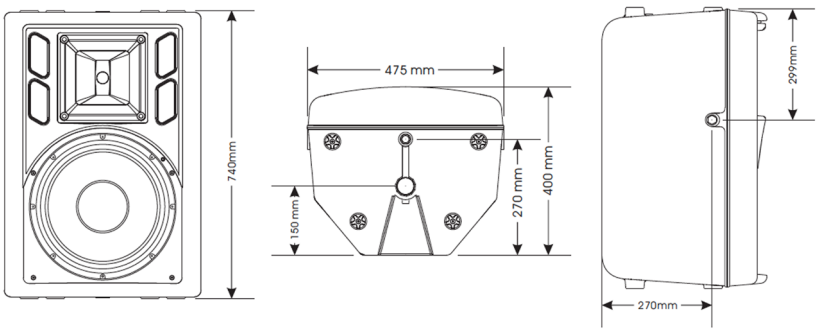

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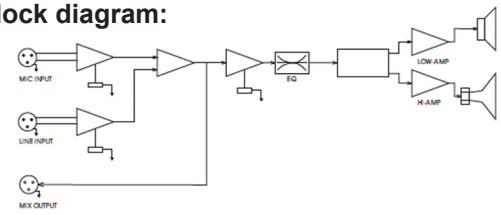
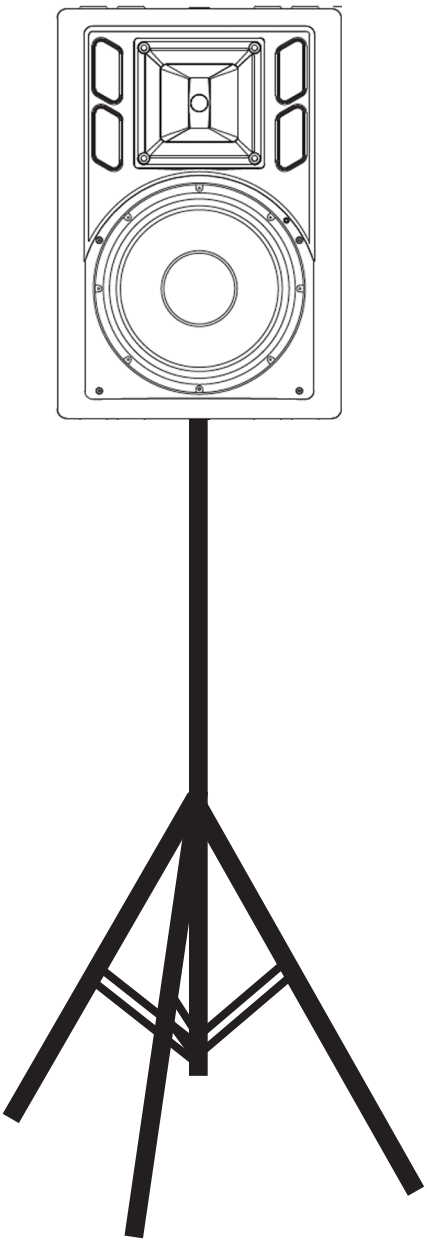


Installation on a Speaker Stand

The speakers may only be installed on a speaker stand if the original speaker is equipped with an appropriate stand adaptor.



Stands must only be installed on a plane area with a maximum inclination angle of 5˚.

CAUTION: Speakers installed under the influence of horizontal forces, e.g. wind, can be impaired. This is why additional safety measures like attaching ballast weights have to be taken.

If inclined tension cables or prolonged outriggers are used. the area of danger has to marked or blocked.

Before lifting or lowering the telescopic tubes, you must always block a safety area around the stand. This safety area must have a diameter of 1.5 times the maximum height.

Lifted telescopic tubes always have to be secured with a secondary securing attachment.

The total weight of the installation (total weight of system including individual parts) must never exceed the maximum load of the installation area.

Unintended movement of the load has to be avoided - also in case of fire!

Loosen the fixing screws of the legs, pull the legs out until the cross struts are at a 90˚ angle to the legs. Tighten the fixing screws of the legs.

Installation Of The Speaker

CAUTION: The loads have to be installed in a balanced way.

CAUTION: The carrying capacity of the stand or speaker stand must never be exceeded.

Overhead Installation

If the speaker is to be installed with a mounting height of more than 1 meter (e.g. on a stage or framework), the speaker must always be secured with an appropriate secondary securing attachment.

The installation must always be secured with a secondary safety attachment. e.g. an appropriate catch net. The secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging, or servicing the speaker standing in the area below the installation place, on bridges or other endangered areas are forbidden.

The operator has to make sure that the safety data is approved by an expert before operation for the first time and after any changes are made.

The operator has to make sure that the safety data is approved by an expert after every four years in the course of an acceptance test.

The operator has to make sure that the safety installation data is approved by a skilled person once a year.

Procedure
The speaker should be installed outside areas where persons may walk by or seated.

IMPORTANT! OVER HEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working limits, installation materials used, and periodic safety inspection of all installation materials and the speaker. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and damage to your property.

The speaker has to be installed out of the reach of people.

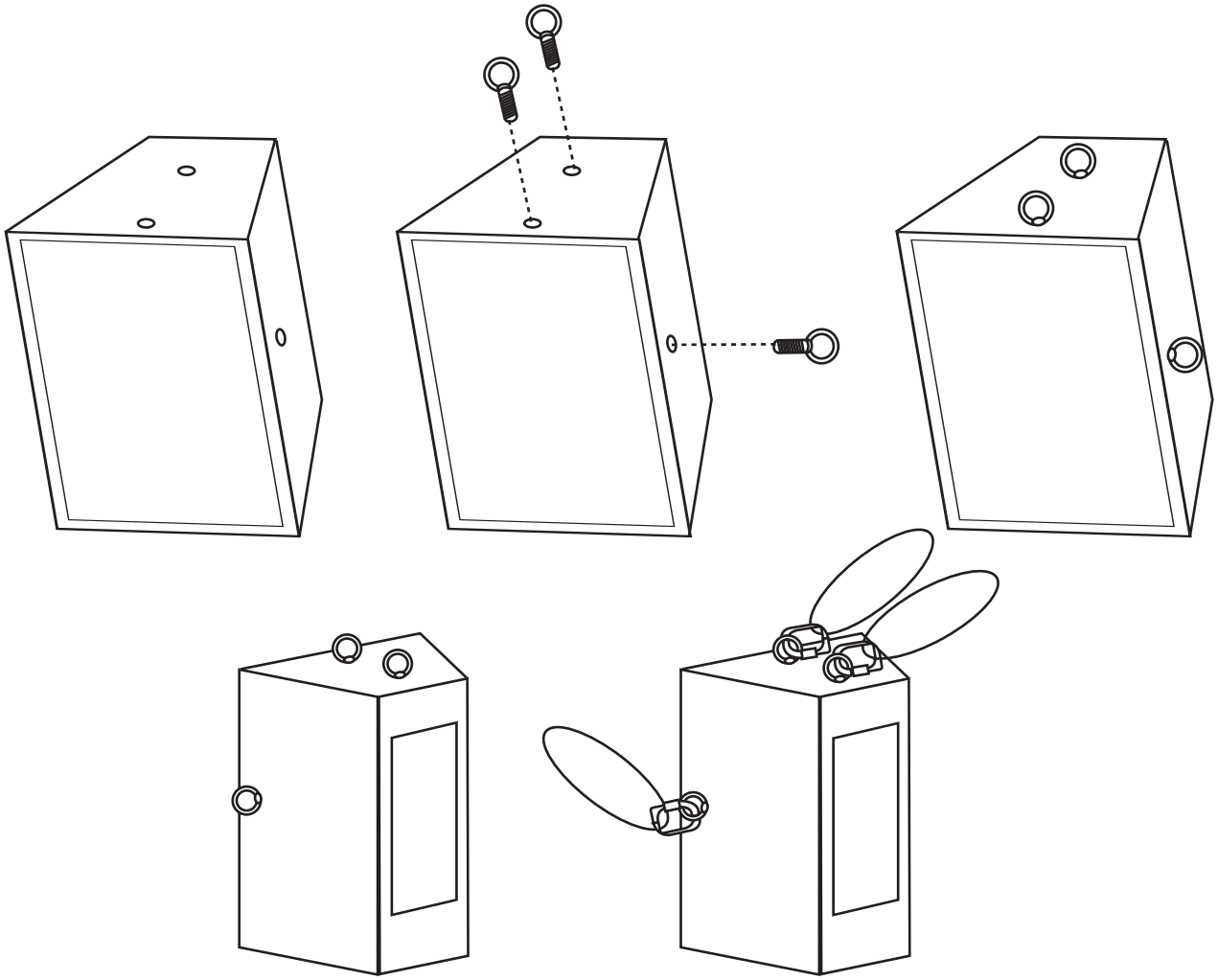
CAUTION: Speakers in overhead installations may cause severe injuries when falling! If you have doubts concerning the safety of a possible installation, do not install the speaker!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the speakers weight.

Secondary Attachment

Please note: The Speaker(s) must always be secured with three appropriate eye bolts and three appropriate safety ropes.

The eyelets and the safety ropes must always hold at least 12 times the weight of the speaker.



Please note: Before installing the eye bolts, make sure that the thread is is always in perfect condition and free from dirt.

Install the eye bolts in the threaded holes on the speaker. The eye bolts must be tightened until the stop position, hand tight with out any tools.

Insert the quick links of the safety ropes in the eye bolts of the speaker system. Pull the safety ropes over a safe fixing spot. Insert the end into the quick link and tighten the safety screw.

The maximum drop distance must never exceed 20cm.

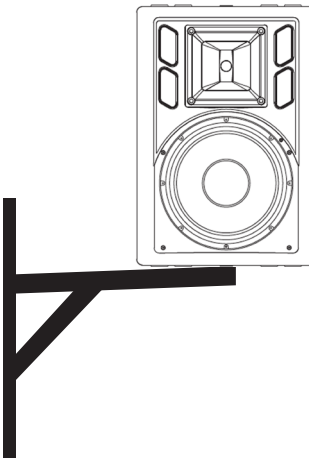
A safety rope which has already held the strain of a fall and is defective must not be used again.

DANGER TO LIFE!

Before putting the speaker into operation for the first time, the installation has to be approved by an expert!

Wall Installation

The speaker can only be installed on a wall, if the original speaker is equipped with an appropriate mounting point.



Before attaching the speaker, make sure that
the installation area can hold a minimum point load of
10 times the installations weight.
(e.g. 13Kgs - 130Kgs point load).

The durability of the installation depends very much on the material used at the installation area (building material), such as wood, concrete and brick etc. This is why the fixing material must be chosen to suit the wall material. Always ask a specialist for the correct plug/screw combination indicating the maximum load and building material.

Suspended Installation

DANGER TO LIFE!

The speaker must only be suspended by an experienced and trained persons! Danger to life due to falling speakers.

Suspended Installation

The speaker(s) has to be installed out of the reach of people.

The installation material must always hold at lease 12 times the weight of the speaker.

Please note: The installation must always be carried out via two eye bolts on top of the and one at the rear. The speaker can be tilted in a maximum vertical angle of 115˚ or maximum horizontal angle of 25˚.